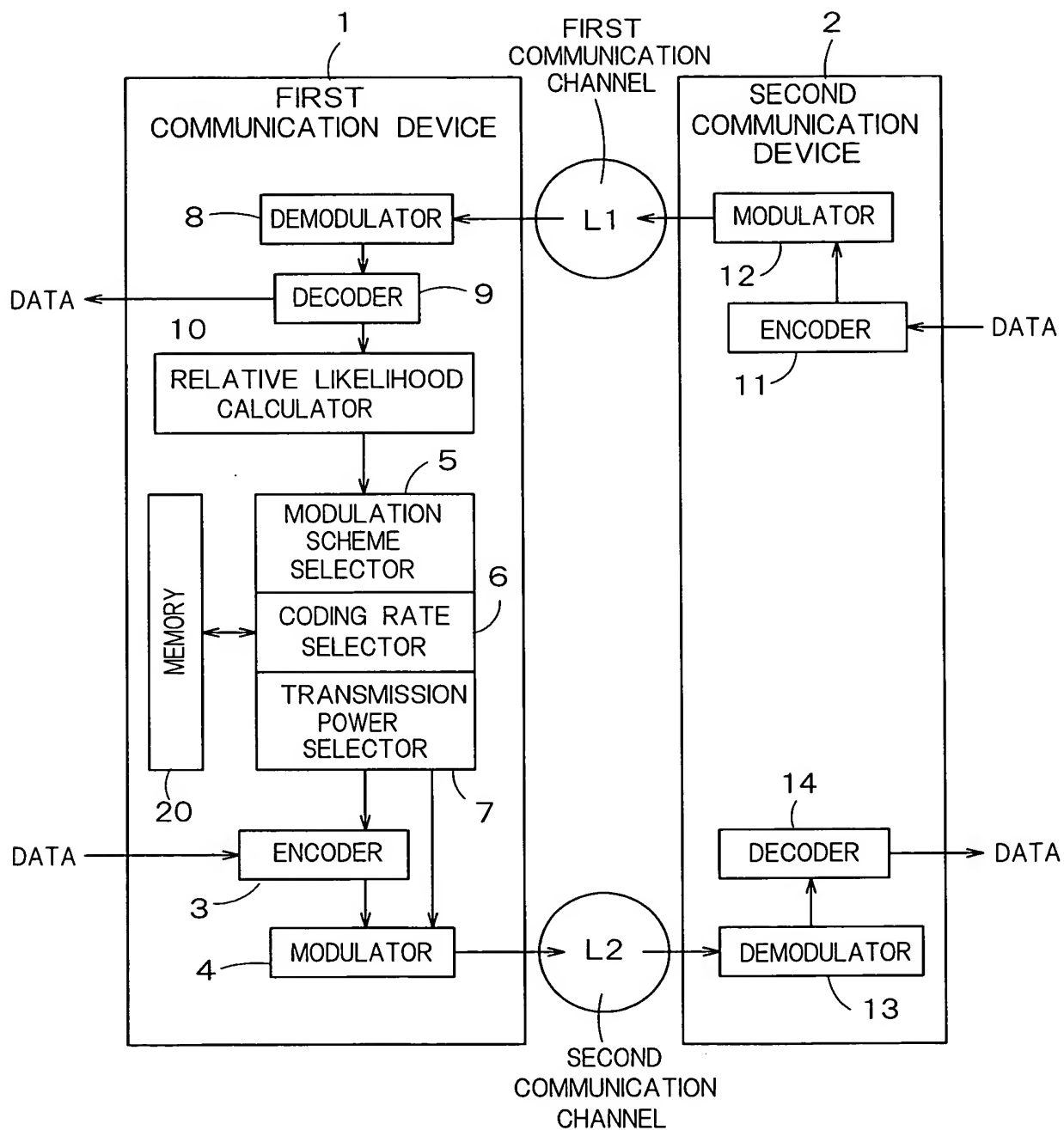1 / 3

F I G. 1

2 / 3

CANDIDATE SEQUENCE1 : 0000
LIKELIHOOD OF
  CANDIDATE SEQUENCE1 : 31

CANDIDATE SEQUENCE2 : 0101
LIKELIHOOD OF
  CANDIDATE SEQUENCE2 : 1

CANDIDATE SEQUENCE3 : 0110
LIKELIHOOD OF
  CANDIDATE SEQUENCE3 : 5

CANDIDATE SEQUENCE4 : 0011
LIKELIHOOD OF
  CANDIDATE SEQUENCE4 : 3

RELATIVE
LIKELIHOOD $: 31-(1+5+3)/3 = 28$

28>15 : THRESHOLD VALUE

MODULATION
SCHEME : HIGH DATA RATE

CODING RATE : HIGH

TRANSMISSION
POWER : OMIT

F I G. 2A

CANDIDATE SEQUENCE1 : 0000
LIKELIHOOD OF
  CANDIDATE SEQUENCE1 : 15

CANDIDATE SEQUENCE2 : 0101
LIKELIHOOD OF
  CANDIDATE SEQUENCE2 : 12

CANDIDATE SEQUENCE3 : 0110
LIKELIHOOD OF
  CANDIDATE SEQUENCE3 : 6

CANDIDATE SEQUENCE4 : 0011
LIKELIHOOD OF
  CANDIDATE SEQUENCE4 : 9

RELATIVE
LIKELIHOOD $: 15-(12+6+9)/3 = 6$

6<15 : THRESHOLD VALUE

MODULATION
SCHEME : LOW DATA RATE

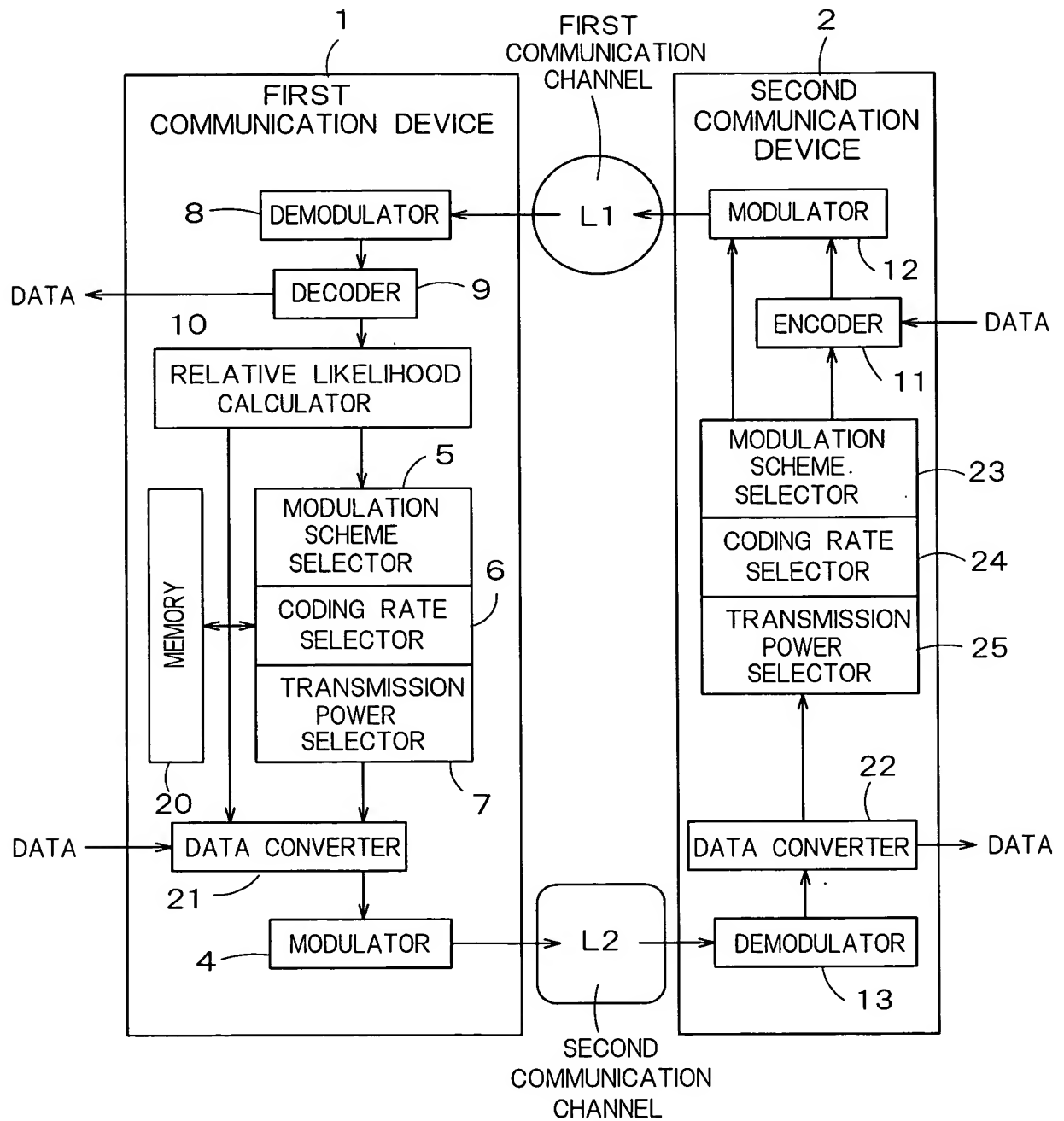CODING RATE : LOW

TRANSMISSION
POWER : LARGE

F I G. 2B

FIRST COMMUNICATION CHANNEL

1 — FIRST COMMUNICATION DEVICE

2 — SECOND COMMUNICATION DEVICE

8 — DEMODULATOR

← L1 ←

MODULATOR — 12

DECODER — 9

DATA ←

10 — RELATIVE LIKELIHOOD CALCULATOR

ENCODER — 11 ← DATA

5 — MODULATION SCHEME SELECTOR

6 — CODING RATE SELECTOR

MEMORY

7 — TRANSMISSION POWER SELECTOR

MODULATION SCHEME SELECTOR — 23

CODING RATE SELECTOR — 24

TRANSMISSION POWER SELECTOR — 25

20

DATA → DATA CONVERTER

21

22 — DATA CONVERTER → DATA

4 — MODULATOR → L2 → DEMODULATOR — 13

SECOND COMMUNICATION CHANNEL

F I G. 3